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TREES AND MOISTURE.

The Old But Ever New Question of Watering at Transplanting Discussed Once More.

A correspondent of Green's Fruit Grower says: "I have planted, perhaps, a million of trees in my lifetime. have met with but few fallures, and cannot remember having watered any of these trees. If the soil is made thoroughly fine before planting; if the soil about the roots is pressed in very firm, as firm as a fence post; if the soil is left loose on the top, and kept continuous-ly loose by cultivation, the trees will live even though the senson may be dry." In connection with this paragraph, it may be noted that, on one oceasion within the experience of the writer, a large number of trees that had been planted in the spring, and had grown tolerably well, showed signs dur-ing the following very dry summer of wilting their leaves for want of water. An examination seemed to show that although the trees had been well planted in the common acceptation of the term, yet the earth in many cases was not packed closely around the roots. It was not convenient to water them. The owner was recommended to pound the earth around the trees with a heavy paving rummer. This was done. It is almost impossible to convey an idea of the force used on this occasion. A force was exerted fully equal to that employed by the regular rammers in paving the streets. The earth being very dry was reduced to fine powder by this process, and moisture was drawn upward by eapillary attraction. In a couple of days afterward, there was not the alightest sign of wilting, although no water had been applied, and they continued to grow without any evidence of suffering for want of water antil the next rain came. Had the soil not been heavily beaten in this way, their death would have been absolutely,

FORCING VEGETABLES.

The Style of House Most Favored for This Purpose by the Market Gardeners of New England.

county, Mass., have a handy style of hot , tribute. - American Gardening. house for forcing all sorts of vege-tables. During winter lettuce and beets are marketed, and cucumbers and tomatoes started. The plan herewith mill Location Is by All Odds the Best shows diagonal pieces from center of bed to center of glass. Houses may be of any length, but that of C. L. Hart-



pitch with 8-foot pitch at the back. For a 16-foot pitch the front side would be 4 feet high and for the 8-foot rear, 8 feet high. The stakes for encumber wires are about 0 feet long. The stakes are set a few yards apart through the house, and wires strung from stake to stuke over which cucumbers climo. Tourstoes are trained up on stakes along the edge of path and bed. Raising early vegetables thus becomes simple, and where markets are good has been found more profitable than any

branch of farming .- Farm and Home. Many Virtues in Apples.

remarkably efficacious medicinas prop-It has more phosphoricacid, in an easily | do their work without interference. A liver, promotes sound and healthy till taken up by the roots. A sandy soil tie dressing. The autiseptic dressings sleep, and thoroughly disinfects the gets rapidly poor, and when fertilized | that may be used are various-many mouth. It also agglutinates the surlus acids of the stomach, helps the manure is lost. kidney secretion and prevents calculus growth, while it obviates indiges tion and is one of the best preventives of diseases of the throat. Next to lemon and crange it is also the best last spring. antidote for the thirst and crawing of persons addicted to the alcohol and on the grape vines.

Spraying with Kerosene.

The San Jose scale is constantly sprending in all directions and in some parts of the south is destroying the peach trees. No satisfactory spraying material except kerosene has been dis covered, even whale-oil soap emulsion is a choice fruit for preserves. failing to get all the insects unless very kerosene is not safe for the tree, al- house though a newly-invented spraying pump is so constructed that it mixes severe winters, the oil with water in the nozzle and allows a very light coat of kerosene to grow apples in abundance, if care is be applied.* This should be done on taken as to the making or selection of bright days in the winter while the varieties. buds are dormant, and under favorable conditions works very effectively .-Farmers' Voice.

Coal Ashes for Orchards. That coal ashes are beneficial when spread on the surface of apple orchards in grass cannot be disputed. But they contain scarcely any mineral ferthrough fire, destitute of any other. a mulch, and where they cover grass spring and early summer, and his hogs

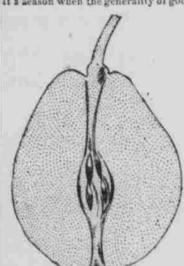
the grass has been killed. Michigan will grow begts to perfec-



DELICIOUS NEW PEAR.

it Is Called the Dempsey and Is a Combination of Bartlett and Duchess d'Angouleme

If parentage should tell for anything n the production of a new fruit or sould expect a combination of Bartlett with Duchess d'Angouleme to be productive of good, and that for once expectations were not in vain le evilenced in the very fine pear Dempsey, specimens of which were received a this office from the holders of the stock it Terorto. Coming in full condition at a season when the generality of good



THE DEMPSEY PEAR.

welcome addition to the list. We ate the fruits with a good deal of gusto.

The Dempsey was produced from seed of the Bartlett fertilized Duchesse d'Angouleme. The tree is described as an upright, good grower; foliage large, glossy dark green, resembling both parents. Fruit large, obtuse pyriform, irregular in outline as is seen in our life sketch. Skin smooth, green, changing to yellow as it. ripens, with a slight brown tinge where exposed to the sum Stem about an inch long, stout, and set slightly to one side. Calyx shallow. Flesh white, five grained, tender, buttery, almost melting, with a rich, sweet, delicious flavor, As a desert or market pear it is of the highest merit. Season, October and November. Judging from the condition of the samples before us, we should say the fruit will prove a good shipper, and The market gardeners of Worcester that after all is not the least valuable at-

THE APPLE ORCHARD.

and Safest in Almost Every Locality.

be selected with a great deal of care.

It used tacks a deal of care.

It used tacks a deal of care.

Selected with a great deal of care.

It used tacks a deal of care.

Selected with a great deal of care.

It used tacks a mixed lot often communication of the apple or steers, for butchers know that heifers by chards set out on soils entirely unsuit- dress equally as well as steers, and the ably lon ed for them. Some people have the beef is undoubtedly as good. But to seidea that the poorer the soil the better | cure the highest price beifers must be it will be for the apple orchard. This well bred and fully finished, otherwise CUCUMBER AND TOMATO HOUSE. opinion evidently arose from the ex- they will still be discriminated against. shorn, from which our plans were perience of people in setting out or- At 16 to 18 months the heifers would taken, is 200 feet long. The house is chards on very rich land and finding not have arrived at maturity and would 20 feet wide, the roof having a 12-foot them unsuited for them. They quite be rather light in weight to meet the pitch. Others have a 16 foot front naturally inferred that if the rich land requirements of the best trade. From was not good the poor land must be 1,200 to 1,500 pounds is the desirable good. But rich land is not suitable, for weight, and it will usually require an the reason that it occasions a too great age, even with good breeding and feedgrowth of wood and not enough of fruit | ing. of from 24 to 30 months to give a buds. As we say: "It all grows to weight of 1,200 pounds or over. Cattle follinge!"

rich to permit fruit buds to develop in cattle to a fluish, and from three to four large numbers. Generally a mendow that the soil-water stands so near the ger continued. These are the views of a surface that the roots are soaked dur- practical cattle breeder. ing a large part of the year. The water does not have to lie near the surface to do this for as is well known, the roots The apple is such a common fruit of apple trees penetrate very deeply persons are familiar with its into the ground, sometimes seven of more feet. The hill location is genererties. Everybody ought to know that ally best for the apple orchard, for the the very best thing he can do is to cat reason that there is no underlying sheet apples just before going to bed. The of water. The drainage is natural and apple is excellent brain food, because rapid, and the roots are always able to formerly led to serious trouble are less digestible shape, than any other fruit medium clay soil is generally good, for a wound takes place, it should be treatknown. It excites the action of the the reason that in it the fertility is held ed as early as possible with an antisepleaches so hadly that much of the

FRUITS AND VEGETABLES.

Cut back the grape vines you planted

Destroy the old orghard that you are sure is past usefulness.

If evergreens did not do well last summer, mulch them. California figs are coming into con-

sumption in great shape. The quince is quite easily grown and

fir the cellar. Don't let the odor of carefully applied. The application of decaying vegetables permeate the

Give winter protection to even the pump promises to make it safer. This hardiest fruit, for we sometimes have

We again insist that the west can

As soon as the ground is well frozen mulch where you intend to mulch. The purpose of mulching is to keep the ground from alternate thawing and

freezing.-Western Plowmun.

Assuring a Steady Income, The man who keeps cattle, sheep and hogs, and breeds his work mores regutilizer, and are, of course, having passed | tarly, has his business so arranged that money is coming in at all seasons. His Undoubtedly they benefit by setting as cattle and wool go to market in the eausing it to die out and rot. In this, and mutton sheep go in the fall and way they supply considerable fertility winter. If prices are not best for all and moisture indirectly. Wherever they are sure to be good for one thing coal ashes have long lain under freit or another. His corn and hay are all trees there will be an abundance of fed, and he still has his wheat to sell tree roots just under the ashes where for cash. His income comes to him at such times that he has no use for the money lender, and he has no notes to tion. So will some sections of Illinois. meet or interest to pay .- Grange BulleWHAT MEAT TO EAT.

Pointers by Professor Wiley of the Agricultural Department

Professor H. W. Wiley, chief of the chemistry division of the agricultural department, in a recent talk to the Washington Star, said:

Meats should never be eaten till they until they are about to decay. They should be 3 weeks old at least before being cooked. A chicken killed today ought to hang three weeks in a cold

sugars and starches. These are trans- vator, who ades: formed by the body into fatteners. Fat | One of the jest fruits for keeping in

these are fat givers. habits should partake sparingly of it of our late and should consume more lean. The egg sell as high is a wenderfully perfect food, containing all the chemical elements needed to fact that a sustain the body, except the carboby- these fruits rice is most evenly balanced. The egg ket. contains the needed fat, phosphorus

head falls off the fowl is ripe for eating. | the stand. It should not be touched before. The That's an old idea, all wrong. The ture, and is is an even temperature that phosphorus needed by the brain comes makes all fruits keep a long time. from vegetables, eggs and plants.

Heifers For Beef. by bovers of fat cattle during the last fruit well the early dropping has not few years. Before the dressed business had been developed shippers discriminated against heifers, and they could Professor Goff of the University of only be sold for city slaughter. Now Wisconsis tells about seem to indicate the large firms engaged in slaughtering that such is the case. He says: cattle and shipping dressed beef to all the leading cities of the country buy heifers as readily as steers, although but es with the bordeaux mixture and they still endeavor to secure them at a style disopper carbonate solution The soil for an apple orchard should | they still endeavor to secure them at a | ay cannot be fattened in 60 or 70 days. Land should be rich enough to insure | but it requires from eight mouths to a a good growth of wood, but not too | year. It does not pay to feed ill bred months on full feed will usually give. will be found unsuitable, for the reason | better results than when feeding is lon-

Antiaeptic Dressing.

Horses, from the nature of their work especially those engaged in the hunting field-are peculiarly liable to accidents resulting in wounds of a more erless serious character. Thanks to the modern introduction of the antiseptic treatment into the stable, wounds which common than in past times. When even slightly differing in their action from others. A 3 per cent solution of carbolic acid may be applied or one of the "fluids" popularly known to the majority of the public. Others will be found equally efficacions. Should the wound severe and gaping no time should be lost in obtaining the services of a veterinary surgeon to stitch or suture its lips together and to be afterward, of course, allowed to follow up his own method of curative treatment. Meanwhile before he appears on the scene the application of an antiseptic dressing will aid and not retard recovery under the hands of the professional man .- London Live Stock Journal.

The extensive cultivation of alfalfa in some of the states where little water falls is leading to the introduction of sheep breeding and woolgrowing as a leading industry. The alfalfa will grow and keep green in the driest time, as it sends its roots down deep for moisture. The sheep also will live with less water than any other farm animal. In all our eastern states sheep may be kept in sommer on pasture with no water except what they get by cating grass at night or in early morning while it is covered with dew. This does not prove, however, that sheep can be kept on pasture in regions where dew seldom if ever scale on roses. falls. Even with daw in the morning. if the weather be warm, the sheep will

chance to do so. - Boston Cultivator.

Pure Blood. The introduction of pure blood and reaching that stage in the business where all cattle will be pure bred cannot be consummated in a short time. but the longer we delay the important work of building up the herds along these lines the longer it will be before we have desirable blood in them All pure bred bulls among their cattle.

COLD STORAGE.

have properly ripened—that is to say, Only Choicest Fruit Should Be Used. Pears Pay Well.

A cold storage house on the farm undoubtedly pays, but it must be ron In the first place, it must be place before going on the table.

On a farm where ice can be harvested them hogs are better than fat hogs, cheaply in the winter time. During the on a farm where ice can be harvested and farmers before long will find more winter menths the work on the farm is profit in raising the former than the so light that every farmer can spend latter. The fattening of a pig in old several week or a mouth in cutting and days and even now was all that a farm- storing ice. lo-operation should be arer did with the animal to fit it for more ranged between half a dozon farmers of ket, but soon it will be known that ican one neighborhood to fill each other's meat is better than fat meat for meat icehouse. With ice plentiful, it is an eaters. Men could not and should not live easy matter to keep fruits, ponitry and upon meat alone, for the reason that it other produce in cold storage, says a is wanting in carbohydrates-that is, correspondent of The American Culti-

meat does not give this, although peo- cold storage is pears. So far nobody has ple have always eaten fat with the idea succeeded in raising the right sort of that it is a fattener. Cereals contain the winter pear—that is, a pear equal to carbohydrates, sugar and starch, and our Bartlett or Seckel. The result is it hese are fat givers.

A hardworking conscular man, who late in the fall than to sell them during needs heat and energy, should not plen- the height of the season. Beston ice ty of fat meat, but a man of sedentary | house Seckel pours are a distinct feature um markets, and they) and \$4 per bushel box his is due simply to the alty is made of keeping old storage in Boston. drates. A meal of soft boiled eggs and and the peass are the best in the mar-

Now, any grower of these pears can and uitrogen, and the rice possesses keep his fruits just as well. The very starch and sugar. As a fact, however, choicest fruits should be selected for man feeds himself largely according to this work. Heretefore farmers who his taste and ability. His mental atti- have stored their pears have selected the tude toward his food has everything to common kinds for the work, because do with his power to digest it, and if he they thought it more or loss an experidoes not like it the probability is that it | ment. That does not pay. People who will not do him any good, no matter buy Bartlett and Seckel pears around ow well balanced it may be. Thanksgiving and Christmas are those Meat should be kept three weeks be- who can afford to pay the highest fore eaten. It should be properly ripen- prices, and they want only the choice ed, and then there would be no danger fruits. They must first be free from all from diseased meat. Hang a killed spots or blemish, and then they must be chicken out of a window, as the Ger- kept in a condition that will make mans do, head down, and when the them attract the eye when placed on

What applies to pears is equally true same rule is true of game. Fish and of many other fruits. Choice grades of eggs should be eaten the day they are fall apples kept until late will sell well, taken, but fish, if frezen on the day but they must be kept in cold storage. caught, will be good any time taken A cold cellar will not answer. Ice from the ice. Fish is not a brain food. must be had to keep an even tempera-

Spraying the Current. Some of the red and white varieties According to The Live Stock Indi- of currents shed their leaves very early, ator, a great change has taken place in frequently before the end of summer egard to the values placed upon heifers As, in spite of this fact, they often been very tenerally regarded as a sign But some experiments which

> Some years ago the experiment was made at our station of spraying current ring, and the applications juterva's until June 1.



the fruit was so badly soiled that the treatment was not considered practica-

ble, and so it was abandoned. The past senson the experiment was made of a single spraying with bordeaux mixture after the barvesting of the fruit, and the result was striking, as appears from the accompanying illustration of two plants in the same row, the left one of which received the spraying, while the right one was not

The early dropping of the leaves of the red and white current is due to the attack of a fungus, Septoria ribes, and our experiment the past season seems to show that this disease may be very largely prevented by spraying the bushes after the fruit is harvested. The prema-ture dropping of the leaves reduces the vigor of the plant, and doubtless tends to the production of inferior fruit.

Roses In Winter. Hybrid perpetual and other roses which are liable to have their wood injured should be strawed or buried a few inches underground. But ever blooming ones are none the worse for being partly frozen down, as it acts as a needfal pruning. So, if a covering of leaves be placed about the base, kept there by a spadeful or two of soil, it secures the life of several inches of growth, which is sufficient, says Joseph Mechan in Gardening.

Flower Notes.

Fine results in growing cuttings of the Cyperus alternifolius (umbrella plant) are reported from the Kausas

The Japanese snowball is one of the most perfect shrubs that have been added to our lawns for many years. The bush is entirely clean and very pretty. The bunches of flowers are smaller than those on Opplus, but the color is clean and clear, and the flowers persist for two or three weeks, mys E. P. Powell in The Farm and Fireside. Browallia speciosa major, a novelty

first offered this senson, has received good mention as an acquisition to greenouse flowering plants. Whale oil scap is recommended for

Winter Daleying.

200 (000) 660

Winter dairying is no business for a drink some before night if they got the lavy man or one who will negiect is for AUT Tensors

> Buttermilk. An ordinary glass of buttermilk con-

tains about as much nutriment as two ounces of bread or an ordinary sized potato. Buttermilk in most locations is used as food for pigs only, but this byproduct near large cities is very much sought after us a beverage, especially stockmen should remember this fact in warm weather. It furnishes more and begin today to allow nothing but nutriment than almost anything except new milk

ENTRANCE TO HIVES.

he Way to Manage It For the Com-

Rees should have the benefit of every convenience in passing in and out of their hives in winter. The front yard of each hive should be thoroughly cleaned up of all grass or weeds, and the earth banked up to a level of the bottom board of the hives. When hives are thus set on the ground-and they should not be set anywhere else-the ground should be spaded up and raised higher where the hive is set, and thus have the hives a So says A. H. Duff in Texas Farm and Ranch, and his further remarks about the entrance to hives are us follows:

The entrance to the hives has much to do with the comfort of the bees, not only in winter, but in summer also. It is necessary at all times to have the ground sloped up to the top of the bottom board, that the bees when dropping in front of the hive can reach the en trance by crawling and without again taking wing. When the weather is cool, they frequently come home in a be numbed condition and are unable to take wing the second time, and the result is they die near their own home in large numbers thus. Bees coming in aded with honey should be provided with this convenience as well.

The greatest damage is done during the winter, and it does not take much loss of bees in this manner to greatly weaken the colony at this time of year when they are at their lowest number. Bees frequently clean house in winter on days that are pretty cool and so cold that no bees will appear on the outside. They will thus carry dead bees from the back part of the hives and deposit them in front and near the entrance. In doing this work they often clog the entrance with dead bees so tightly that they are unable to get out when a warm. day comes, and in such cases it is necessary to open up the entrance for them. This must be carefully looked after on the approach of fine days when they are liable to fly out.

The ordinary entrances to hives as used in summer, which are about threeeighths of an Inch wide and 10 or 12 inches long, should be contracted up to the limit of 114 inches. No colony is so strong that it needs the full entrance in winter, whether mild or otherwise, and the entrance is better thus contracted from October until May.

Pacific Const Wheat Seeding. In California fall rains were late in coming and seeding was generally delayed. In fact, there was not the usual opportunity for fall fallowing that was de sired. But in reporting this feature The Grange Judd Farmer says it means but little, as the seed may be sown at any time during the winter after the rain come without in any material way damaging the prospect for a satisfactory erop. According to the journal men-tioned, in Oregon and Washington less than the usual fall fallowing was done, but the proportion is not large enough to in any way affect the crop possibilities of the states. The seeding has been conducted under favorable conditions and the outlook is for a large increase in the spring sowing at the expense to some extent of the fall fallowing. On the north Pacina coast alone is there re-ported less area now seeded than was barvested this year. In every other state there is an increase, in most of them a very material one, and the total acreage, assuming that California will be able to seed all that her growers report as michiged for wheat, will be the larges

ever seeded to winter wheat. Too much glass in the south side of the benhouse gives in winter a hothouse



as possible for bost results. The Farm Journal advices, if your house front - is covered with glass, to prepare SHUTTER FOR NIGHT. shutters or heavy screens to put on at night in cold weather. The latter may be made by nuiling

canvas on a frame and hinging it on inside of the window as shown in the il-Instruction. Two screw eyes and a cord rightly placed will enable you to raise or lower the screen from the entrance to the house. Cheapest Form of Phosphoric Acid According to the Geneva (N. Y.) sta-

tion, soluble phosphoric acid has the same value pound for pound whatever its source. At present dissolved rock is the cheapest source, and this is the form in which farmers should buy phosphoric acid if they desire to receive the largest amount of actual plant food for

News and Notes.

The American Maize Propaganda is making every possible effort to secure for corn a thorough and first class representation at the Paris exposition of

A supply of salt, available whenever the cow wants it, is necessary to maintain a high milk yield. As a rule it is not possible to have

dust free air in a barn if the cows are fed just previous to milking. If the hay or feed is dusty, it should be prinkled Q and fed a sufficient time before milking so that the dust may be settled and the stalls ventilated, cleaned and sprinkled or flooded previous to the time of J. milking.

St. Petersburg is to have an international poultry show from the 13th to the 28th of May, 1899. Exhibitors will be granted reduced rates for their exhibits on all Russian railroads and free entry for same on condition that they be exported from Russia within two months after the close of the exhibition.

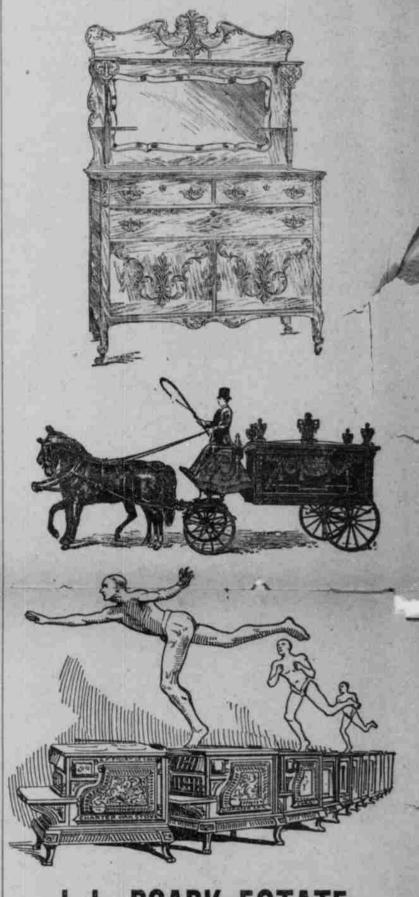
An investigation of the alkali soils of the Yellowstone valley has been made by the United States department of agriculture. It was found that in the original prairie soil above the ditch there is not sufficient alkali to be injurious to vegetation. The amount of alkali was greater in the lower depths of the subsoil. As a rule water is used in excess on all of these lands under irrigation, and in all cases the first injury was from the accumulation of water from excessive applications.

Colorado is reported to have received 49 of the gold and silver medals for best displays at the Omaha exposition.

Books, Stationery, Fancy Articles.

The public is invited to inspect this above the level of the ground. In this manner the water is arrived off and prevents dampness about the hives. merchandise at the

Lowest Possible Prices. Mrs. C. S. MORSAN. J. L. MORGAN, Mgr.



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